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### CLAIMS

1. (Original) A method of thermoforming, comprising:  
providing a vacuum mold having an internal vacuum chamber;  
heating a thermoplastic material;  
drawing the heated thermoplastic material over the vacuum mold, including drawing a partial vacuum in the internal vacuum chamber; and  
cooling the formed thermoplastic material by quenching the thermoplastic material while the thermoplastic material remains on the vacuum mold.
2. (Original) The method of claim 1 comprising maintaining the quench at a substantially constant temperature.
3. (Original) The method of claim 2 wherein the thermoplastic material is quenched in a material selected from the group consisting of water, oil, coolant and ceramic beads.
4. (Original) The method of claim 3 comprising removing the thermoplastic material from the vacuum mold by reversing the vacuum and blowing a gas against the thermoplastic material.
5. through 32. (Cancelled)